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10/565,049	01/17/2006	Kristen E. Belmonte	PU60400	6150	
20402 004070508 SMITHKLINE BEECHAM CORPORATION CORPORATE INTELLECTUAL PROPERTY-US, UW2220 P. O. BOX 1539 KING OF PRUSSIA. PA 19406-0939			EXAM	EXAMINER	
			O'DELL, DAVID K		
			ART UNIT	PAPER NUMBER	
	,		1625		
			NOTIFICATION DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Application No. Applicant(s) 10/565.049 BELMONTE ET AL. Office Action Summary Examiner Art Unit David K. O'Dell 1625 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 30 January 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-4 and 6-16 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-4 and 6-16 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948)

Imformation Disclosure Statement(s) (PTC/G5/08)
 Paper No(s)/Mail Date ______.

Notice of Informal Patent Application

6) Other:

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DETAILED ACTION

1. Claims 1-4 and 6-16 are pending in the application.

2. This application is a national stage of PCT/US2004/023042 filed on July 16, 2004 which

claims priority to U.S. Provisional Application No. 60/488,061 filed July 17, 2003.

Request for Continued Examination

3. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e)

has been timely paid, the finality of the previous Office action has been withdrawn pursuant to

37 CFR 1.114. Applicant's submission filed on January 30, 2008 has been entered.

Response to Arguments

4. Applicant's arguments filed on January 30, 2008 have been fully considered but they are

not persuasive. The applicant has claimed that the examiner has improperly made the rejection

final and asked for a withdrawal of the finality. This request is denied. The rejection was

entirely proper. The claims were amended after the first action, to recite pharmaceutical

compositions only (while the previous claims were drawn to compounds). Should the examiner

apply new art or augment the rejection with new references it is entirely appropriate. The

references were in fact not some newly discovered art of Zirkle but rather both were cited on the

IDS or 892 and are drawn to the same compounds. While some compounds may be present in the

U.S. patent and not the journal article and vice versa, the instantly claimed compounds are

clearly present in both U.S. patent 2,800,478 and Journal of Medicinal & Pharmaceutical

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Chemistry, 1962, 5, 341-356, as evidenced by their description (they have the same melting point in both references and the same chemical structure). Again it is worth pointing out that the Zirkle teaching is the basis of the specification. What is remarkable is the argument that the teachings of Zirkle are not enabling, or different in their degree of enablement with respect to the compound that formed the basis of the rejection. Is the suggestion that one teaching is better than the other? Is the applicant suggesting that the earlier Zirkle was a better Zirkle, perhaps a more competent chemist that the latter Zirkle? There is no evidence that the early Zirkle was a superior Zirkle or a different Zirkle. Is the applicant suggesting that the Zirkle of the U.S. patent 2.800,478 and Journal of Medicinal & Pharmaceutical Chemistry, 1962, 5, 341-356 are in fact different Zirkle's? If there are two Zirkle's, it is just as reasonable to assume that the early Zirkle of U.S. patent 2.800,478 was the unskilled chemist and the Zirkle of Journal of Medicinal & Pharmaceutical Chemistry was the dexterous chemist as it is to assume the converse. Since the applicant has argued the converse, namely that the latter Zirkle was the unskilled practitioner, and it has been established that both propositions have an equal probability or improbability of being true, in the absence of probative evidence of the inferiority of one Zirkle over the other this becomes an argument that the specification is not enabled. The applicant should clearly admit on the record that the specification is non-enabled or present evidence of two different Zirkle's or the inferiority of either the younger Zirkle or the elder Zirkle.

Regardless of the applicant's position on the nature of these references, the examiner believes that there was only one Zirkle, the Zirkle who worked at Smith-Kline French, filed and received the U.S. patent and later published the results in the *Journal of Medicinal & Pharmaceutical Chemistry*, **1962**, *5*, 341-356. These results show how to make the compound,

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and disclose the pharmacological activity of these compounds, namely that they inhibit acetylcholine induced response with activity similar to atropine. For these reasons claims to the composition were clearly anticipated. The recitation of intended use carries no patentable weight in claims for compositions of matter see *Union Oil Co. of California v. Atlantic Richfield Co.* 54 USPQ2d 1227 where "composition claims cannot, as the appellant refiners argue, embrace only certain uses of that composition. (citing In Re Spada) Otherwise these composition claims would mutate into method claims." Ethanol or ethanol/ether solutions can be inhaled. As can solid material. Nonetheless the examiner now applies a 103 rejection based on other teachings.

While the applicant has provided no actual information, but only prophetic assays, the examiner will maintain the enablement rejection for the reasons of record. This rejection will be maintained unless the applicant will state on the record that performing the prophetic assays of the specification is routine experimentation. The entire specification is speculation. To clarify the rejection of claim 6, which is drawn to "inhibiting the binding of acetylcholine to a[sic] acetylcholine receptor in a mammal in need thereof", was made because we do not know what mammals need this compound since no physiological outcome has been associated with administering these compounds, thus no veterinarian or physician would know which mammals should receive this material and the method cannot be practiced.

Objections

5. Claim 6 is objected to for improper grammar. After the words "binding of acetylcholine to" the word "a" should be replaced with "an".

Claim Rejections - 35 USC § 103

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be necatived by the

manner in which the invention was made.

6. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zirkle et. al. U.S. patent 2,800,478 OR Zirkle et. al. Journal of Medicinal & Pharmaceutical Chemistry, 1962, 5, 341-356. in view of Gillett, M. K.; Snashall, P. D. "Measurement of pharmacological antagonism produced by atropine in bronchi of normal and asthmatic subjects" European Respiratory Journal 1988, 1(1), 27-33 and U. S. Patent 6,608,055. The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for

establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized

as follows:

- A) Determining the scope and contents of the prior art.
- B) Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

Zirkle et. al. U.S. patent 2,800,478 teaches the compounds of the current invention as a solid manipulated in air and thus inherently containing air (the composition would be composed of particles of the compound in a composition with air and such a composition would inhalable). In this publication the compound of claim 3, (3-endo)-3-(2,2-diphenylethyl)-8,8-dimethyl-8-azoniabicyclo[3,2,1]octane bromide (applicant's name), Registry #: 106655-97-4 is synthesized and evaluated for its anticholinergic activity. The examiner believes this reference to be clearly

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enabled. Clearly solid compounds, ethanol or ethanol ether solutions of these compounds can be inhaled. They were hydrogenated in ethanol, and also recrystallized form ethanol or ethanol/ether).

2.800,478

nium hydroxide solution. The ether layer is separated and the solvent evaporated to give 1,1-diphenyl-2-(3-tro-pane) ethylene as a white crystalline solid which melts at 109.5-110 °C. after recrystallization from acetone.

I,I-diphenyl-2-(3-tropane) ethine.—10 grams of 1,1. 5 diphenyl-2-(3-tropane) ethylene dissolved in ethanol is hydrogenated over Reney nickel at 500 p. s. 1, and 60° C. until hydrogen absorption ceases. After removal of the catalyst and evaporation of the solvent 1,1-diphenyl-2-(3-tropane) ethane is obtained as colories sol.

The hydrochloride of the base, formed in ethereal hydrogen chloride solution, melts at 244-245° C. after recrystallization from a mixture of ethanol and ether.

1.1.diphenyl-2-(3-tropane)ethane methobronide.—By allowing a mixture of 1 gram of 1.1-diphenyl-2-(3-tro-15 pane)ethane and excess methylkromide dissolved in acctone to stand at room temperature for several hours, the methobronide salt is obtained as white crystals. The product, after recrystallization from a mixture of ethanol and other, melts at 257-258 2.

1.1. diphenyl-2-(3-ropane) ethane metho-p-tolinenesulfonate.—An acetone solution of one gram of 1.1. diphenyl-2-(3-tropane) ethane and excess methyl p-tolinenesulfonate is heated at reflux temperature for five minutes. By addition of ether to the coiled solution the quaternary ammoplium salt is precipitated as a white solid.

I.1-diphenyl.2-(3-tropens)ethene molecute.—By adding 0.12 g off mateix acid to 0.30 g, of 1,1-diphenyl.2-(3-tropens)ethane dissolved in ethanol and evaposting the resulting solution to dryness in vacuo the maleate sait of 30 the base is obtained.

Zirkle et. al. Journal of Medicinal & Pharmaceutical Chemistry, 1962, 5, 341-356 teaches as per pg. 349 paragraph 2 "The tropane alkane derivatives listed in Table IV were obtained by reduction of the corresponding olefins. Olefin VII was hydrogenated smoothly over Raney nickel at room temperature and 4.2 kg/cm hydrogen pressure....." Compound VII is the olefin:

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$$\begin{array}{|c|c|}\hline \text{CH}_3\overset{i}{\text{N}} & \text{CH}_2\text{CH} = \overset{R}{\text{C}} & \text{VII} \\ \hline \\ R^I & \text{VII} \end{array}$$

The relative portion of Table IV is reproduced here:

TABLE IV 3-SUBSTITUTED TROPANE ALKANES

It would appear that structure VIII was omitted from the top heading of Table IV.

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Clearly these compounds are simply salts of the free amines, and this operation (mixing with acid or alkyl halide/crystallizing) was not discussed in detail. It is relatively common for scientists not to discuss trivial procedures that all in the art are aware. This reaction of amines has been known for a very long time, for example a 1924 introductory lab text where the hydrochloride salt of methyl amine is prepared (Norris, James F. Experimental Organic Chemistry McGraw-Hill: New York, 1924, pgs. 88-91.) Furthermore it is apparent that the reference inherently discloses solid material (which is inhalable and exists as a composition with air at atmospheric pressure). An excerpt from pgs. 352-353 are shown below:

The in vitro cholinolytic activities of some of the tropane carbinols,

olefins, and alkanes, relative to that of atropine, are presented in Tables II, III and IV. A number of the derivatives in which two carbon atoms separate R and R' from the tropane ring are quite active agents, equalling or exceeding atropine in potency, whereas the lower and high er homologs of these derivatives are relatively inactive. The β isomer (IVf) of the diphenyl carbinol IVe and the unsaturated

(19) We are indebted to Mr. Edward Macko and his associates, of the Pharmacology Section of these Laboratories, for supplying these data.

While it is not clear what tissues were involved they were clearly administered in some fashion (composition or powder).

Regardless, since the compounds of the instant case are anticholinergics and atropine (an anticholinergic) has been used in inhalation formulations as taught by Gillett, M. K.; Snashall, P. D. "Measurement of pharmacological antagonism produced by atropine in bronchi of normal and asthmatic subjects" *European Respiratory Journal* **1988**, 1(1), 27-33 and clearly the preparation

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of an inhalable formulation of these compounds is trivial undertaking as per U.S. patent 6,608,055 (see columns 9 & 10) it would be obvious to prepare a different formulation (a dry powder with additives) and test them as anticholinergies as per the teaching of Zirkle.

US 6,608,055 B2

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Drawing. The inhalable powders according to the invention are prepared by maxing the consers exceptors freedoms with the finer exciptent fractions and subsequently mixing the resulting exception mixtures with the active substance. In order to prepare the exception mixture the conserve and flace exception fractions are closed in a winderly mixture.

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of an perfectively and closed south the alignest of appendixen these addition. See addition, the sease of the entition of the entition terms, the sease of the entition of the

The powder mixture thus obtained may optionally be passed

15 through a screening grammator once again or several times
more and then subjected to another mixing operation each

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Thus it is very clear that the instant claims recite an obvious variation of an old composition, a variation that was known in this very narrow field of anticholinergic agents. It would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made to make a variation on the composition of Zirkle et. al. A person of ordinary skill in the art would have been motivated to do so based on the teaching of Gillett et. al. showing that inhalable administration was a good route for the administration of anticholinergies. Moreover the preparation of such a composition would be trivial to prepare as per U.S. patent 6.608.055.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 7. Claims 1-4, 6-16 are rejected under 35 U.S.C. 112, first paragraph, for failing to comply with the enablement requirement. The claims contain subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. There are many factors to be considered when determining whether there is sufficient evidence to support a determination that a disclosure does not satisfy the enablement requirement and whether any necessary experimentation is "undue." These factors include, but are not limited to the following:
 - (A) The breadth of the claims:
 - (B) The nature of the invention;
 - (C) The state of the prior art;
 - (D) The level of one of ordinary skill;
 - (E) The level of predictability in the art;

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(F) The amount of direction provided by the inventor;

(G) The existence of working examples; and

(H) The quantity of experimentation needed to make or use the invention

In re Wands, 858 F.2d 731, 737, 8 USPQ2d 1400, 1404 (Fed. Cir. 1988)

(A) The breadth of the claims: The claims are broad and drawn to many conditions,

respiratory and otherwise but that's not really the main concern here, the main concern its that

these compounds have not been shown to be useful for treating any disease. (B) The nature of

the invention: This invention is drawn towards a method for treating diseases. (D) The level of

one of ordinary skill: One of ordinary skill in the art of treating diseases or determining which

drug to use for the treatment of a condition would be either a medical doctor or Pharm D. (C)

The state of the prior art: While Zirkle states that these compounds are the preferred

compounds of his study, and effective in vitro as anti-cholinergies (ibid. pg. 352-353), we don't

know how these compounds behave in vivo.

(F) The amount of direction provided by the inventor and (G) the existence of working

examples: While the applicant has provided descriptions of assays in the specification, and

statements like "All data is given as mean +- standard error of the mean..."(pg. 7), the examiner

cannot find the data in the specification. Statements like the one found on pg 9 line 14 "This

experiment allows for the determination of duration of activity of the administered compound..."

without actually providing a single piece of data lead the examiner to believe that these are mere

recitations of possible experiments that could be performed with the compounds and that none

were actually performed. No working examples exist. It is true as the applicant has pointed out

that no requirement exists for in-vivo data, however only if some clear correlation exists between

the in-vitro assay and the disease state. In fact in the instant case we have no in vitro assay?

What is the in-vitro assay that was performed? Clearly one can come up with prophetic assays,

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that do little to ease the unpredictable nature of these experiments as delineated below. This is called a research proposal. The specification seems to be a proposal for research to be conducted to find out if the compounds are useful for treating various disorders. (E) The level of predictability in the art and (H) the quantity of experimentation needed to make or use the invention: In the absence of this data we are left with an old compound that is an anticholinergic, however it is well known that there are many muscarinic receptor sub-types and even before the application was filed a review article (Lee, A.M. et. al. Current Opinion in Pharmacology 2001, 1, 223-229) tells us that at least five distinct subtypes of muscarinic receptor exist (M1-M5 in humans). Each one of these GPCRs has distinct tissue distribution, second-messengers and most-importantly ligand profile. All that we currently know about these compounds is that they inhibit the action of acetylcholine in a non-specific assay (given in 1962 the subtypes of muscarinic receptors were not known). Maybe these were organ bath assays with sheep vas deferens, pig heart or guinea pig ileum. We don't know, but it would be helpful to know the tissue type and animal. Even if we know the tissue type these receptors are of course GPCRs and the differences between the animal protein and those found in humans is sometimes substantial (more or less subtypes, or little homology). What creatures will be treated with these compounds? It was well known at the time of the invention that in order to be used in applicants claimed manner (a disease, and specifically a lung disease like COPD and asthma, claims 7-12), that the sub-type selectivity is very significant parameter to be determined in assessing the potential therapeutic benefit of a putative pharmaceutical. Lee, A.M. et. al. ibid. state on pg. 225:

> Nonselective muscarinic receptor antagonists Atropine, ipratropium and oxitropium are nonselective

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antimuscarinic drugs that successfully abrogate bronchoconstriction and airway hyperreactivity in humans; however, they bind M2 and M3 muscarinic receptors with equal affinity [5]. Since the M2 subtype is an inhibitory prejunctional autoreceptor, blocking the M2 muscarinic receptor with a nonselective antagonist increases acetylcholine release and may enhance bronchoconstriction. Ipratropium (Boehringer Ingelheim Pharmaceuticals Inc., California, USA) is the most widely used anticholinergic medication for airway disease. In guinea pigs, although it prevents bronchoconstriction in doses above 10 µg/kg (intravenous). it doubles vagally stimulated bronchoconstriction at lower doses. [48]. Paradoxical bronchoconstriction to ipratropium has been reported in humans [49,50], although no systematic study of M2 receptor blockade has been performed. Thus, the clinical efficacy of anticholinergies probably depends on the balance between M2 and M3 muscarinic receptor antagonism.

Thus we need to know several things: 1) Do these compounds antagonize muscarinic receptor subtypes found in the lungs? 2) What is the selectivity for receptor subtypes? 3) Are the effects in vitro correlated with in vivo activity? Number three is perhaps the most important factor, given the complexity of receptor sub-types, the possibly different affinities, rates of dissociation, etc. The real question is does it work as a therapy in a creature? Again it must be reiterated that applicant has provided absolutely no data for these compounds, although Smith-Kline French may have acquired such data, it has apparently not been published. Since no data is given we cannot begin to evaluate these compounds as drugs, hence any claim directed towards inhalant formulations cannot be evaluated. It is also noted that no such formulations have been prepared and applicant has simply listed a laundry list of possibilities. We are provided with no answers to the questions above, thus it is very clear that one could not use this invention that has no working examples in this unpredictable art without undue experimentation. In regards to claim 6

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which is drawn to "inhibiting the binding of acetylcholine to a[sic] acetylcholine receptor in a mammal in need thereof", we do not know what mammals need this compound since no physiological outcome has been associated with administering these compounds, thus no veterinarian or physician would know which mammals should receive this material and the method cannot be practiced. Since no "pharmaceutical" use is shown, then the composition claims 1-4 are not enabled for pharmaceutical use.

Conclusion

- Any inquiry concerning this communication or earlier communications from the examiner should be directed to David K. O'Dell whose telephone number is (571)272-9071. The examiner can normally be reached on Mon-Fri 7:30 A.M.-5:00 P.M EST.
- 9. If attempts to reach the examiner by telephone are unsuccessful, the examiner's Primary examiner, Rita Desai can be reached on (571)272-0684. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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D.K.O.

/Rita J. Desai/ Primary Examiner, Art Unit 1625